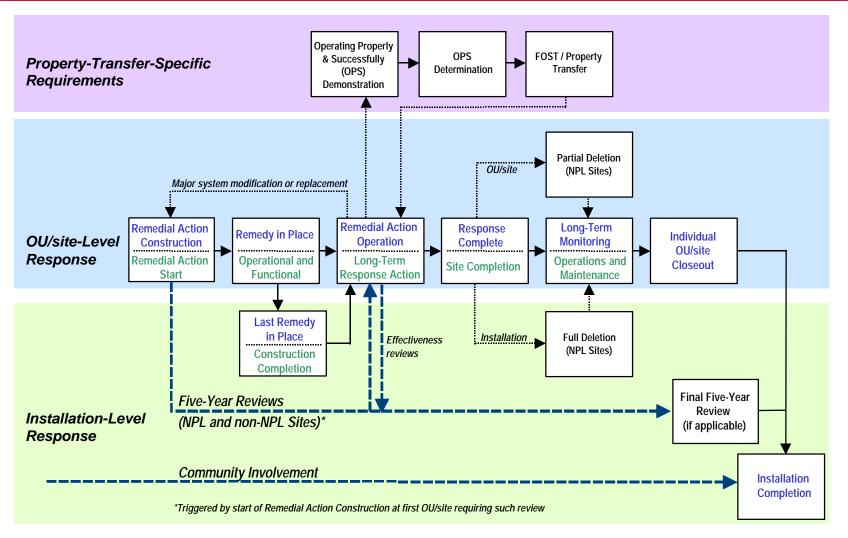


"The Road to Site Closeout"

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Site Closeout Process

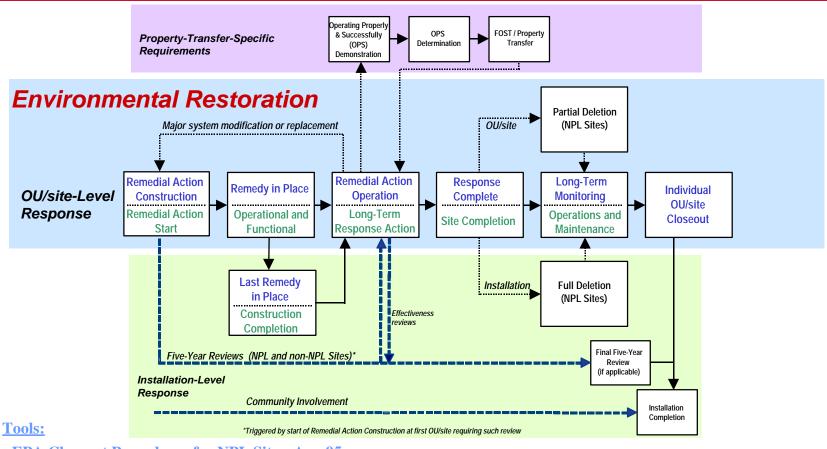




Site Closeout Considerations

- **CERCLA and RCRA Corrective Action sites**
- NPL and Non-NPL facilities
- **BRAC and Non-BRAC installations**
- **Federal and State regulatory requirements**
- **Community involvement**

Site Closeout: Environmental Restoration



- EPA Closeout Procedures for NPL Sites, Aug 95
- Air Force Long-Term Monitoring Optimization Guide, Oct 97
- Air Combat Command Site Closure Guidance Manual, Dec 97
- EPA Procedures for Partial Deletions at NPL Sites, Apr 96



Environmental Restoration Activities

- Construction of cleanup systems
- Operation and maintenance of cleanup systems
- Cleanup system modifications/upgrades/security
- **Institutional control implementation/monitoring**
- **Long-term monitoring performance/optimization**
- Records management
- Preparation of reports and other documentation
- Deletion from National Priorities List
- Cleanup system/monitoring well decommissioning



Factors Affecting Site Closeout

- Time required for closeout components will vary based on site conditions and selected remedy
 - Remedial action operation (e.g., dig and haul vs. pump and treat)
 - Long-term monitoring/operation and maintenance (O&M)
- Remedy modification or replacement may be required to achieve cleanup standards
 - > Transition from an active (e.g., pump and treat) to a passive system (e.g., monitored natural attenuation)
 - > Failure to achieve cleanup standards



Remedy-Specific Characteristics

Level of Cleanup

- Cleanup to unrestricted use or residential standards
- Waste left in place above residential standards
- Relative length of time needed to operate constructed remedy
 - > Short time period or not required after construction
 - > Long time period part of constructed remedy
- **Time required for O&M**
 - > Physical O&M not required after cleanup standards are achieved or for a relatively short period of time
 - Physical O&M required for long period of time or in perpetuity



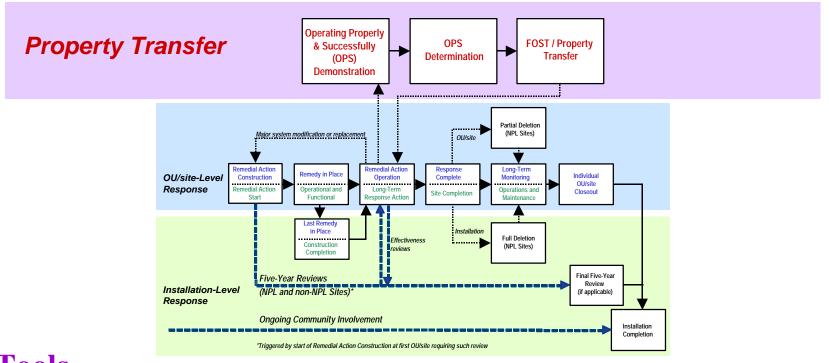
George AFB Packed Tower Air Strippers



Castle AFB GAC Treatment Plant



Site Closeout: Property Transfer



Tools:

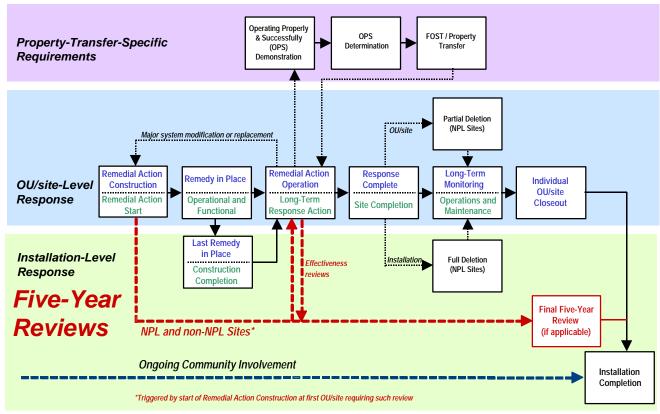
- EPA Operating Properly and Successfully Guidance, Aug 96
- Air Force Operating Properly and Successfully Guidance, Dec 97
- DoD Fast Track to FOST Guide, Fall 96
- DoD Guide to Establishing Institutional Controls, Mar 98



Norton AFB Central Base Area System



Site Closeout: Five-Year Reviews

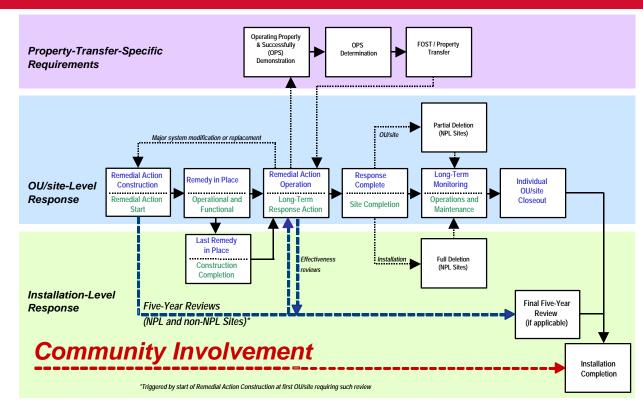


Tools:

- EPA Structure and Components of Five-Year Reviews, Aug 91
- EPA Supplemental Five-Year Review Guidance, Jul 94



Site Closeout: Community Involvement



Tools:

- Installation Community Relations Plan
- NCP Community Relations Requirements (40 CFR Part 300)
- RCRA Public Participation Manual, Jun 96



Community Involvement Activities

- Maintain community dialogue RABs, public meetings, fact sheets, newsletters, site tours
- **■** Media relations/inquiries, press releases
- Cleanup progress reporting/mailing lists
- RAB adjournment
- Technical Assistance for Public Participation (TAPP)
- Information repository maintenance/Admin Record
- **Public comment and document review/public notice**
 - > Remedial Action Plan, Corrective Measures Implementation Plan, Five-Year Reviews, ROD amendments, NPL deletion



Site Closeout Resource Drivers

Numbers of...

- **Remedial systems in place**
- **Performance reviews of remedy operation**
- **Final closeout reports for installations**
- Monitoring wells used in long-term monitoring
- **System modifications/upgrades**
- **Deletions from National Priorities List**
- Institutional controls implemented
- Cleanup system/monitoring well decommissioning
- **Findings of Suitability to Transfer (FOSTs)/Deeds**
- **Community involvement activities**



Summary

- Requirements remain beyond Last Remedy in Place/Construction Completion
- Multiple regulatory frameworks and site- and remedy-specific considerations are involved
- Site closeout requirements need to be fully understood and characterized
- Innovative, flexible, and streamlined approaches to expedite site closeout and manage costs need to be considered

